

PARACHUTE PROTOTYPE TEAM:

Fabricates prototype parachutes, harnesses and accessories, while making modifications (such as upgrading or repairing existing fielded equipment), and provides quick response production capabilities. Technical support for airdrop items, Quality Deficiency Reports (QDR) and Engineering Change Proposals (ECP) is also provided.

JOINT PRECISION AIRDROP CAPABILITIES WORK GROUP:

As chair, under NATO's Air Force Armament Group (NAFAG) Air Group 5 (AG5), develop NATO concepts of operations for precision airdrop systems.



AIRDROP/ AERIAL DELIVERY DIRECTORATE 21ST Century Airdrop



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US ARMY NATICK SOLDIER CENTER



AADD - 21ST CENTURY AIRDROP

MISSION:

To conduct research and engineering on military parachuting and airdrop systems to:

- **Increase aircraft and airborne force survivability**
- **Improve airdrop accuracy and functional reliability**
- **Reduce personnel injuries and casualties**
- **Lower the cost to develop, produce and maintain these systems**

VISION:

To be the Department of Defense leader for research and engineering in all military parachuting and airdrop systems.



JOINT PRECISION AIRDROP SYSTEMS (JPADS):

J P A D S A C T D (Advanced Concept Technology Demonstration) Team, acting as the technical manager, is teamed with the Joint Forces Command (JFCOM), US Air Force Air Mobility Command (USAF AMC), the US Army Project Manager Force Sustainment Systems (PM FSS), along with numerous other

government agencies and contractors to execute the JPADS ACTD. Technical oversight is provided by the Secretary of Defense (OSD) Advanced Systems and Concepts (AS&C) Office.

The JPADS ACTD, is a high priority, high visibility Defense Department-level Joint Program. This program was ranked in the Top 5 new ACTDs by the Combatant Commanders, and ranked as the #2 priority by the Joint Requirements Oversight Council. The JPADS ACTD is an integration of the USAF Precision Airdrop System Mission Planning (JPADS-MP) hardware and software with the US Army Joint Precision Airdrop System-Light (JPADS-L) airdrop system (10K pound rigged weight capability).

The JPADS-ACTD team also executes numerous customer funded initiatives to include rapid fielding initiatives, JFCOM Limited Acquisition Authority (LAA) sponsored efforts, and many other JPADS-Extra Light (XL) initiatives and JPADS supporting technologies.



AIRDROP TECHNOLOGY TEAM:

Provides increased mobility and logistic capabilities to the Soldier by identifying and maturing state-of-the-art technologies that show promise towards advancing aerial delivery of equipment, supplies and personnel.

- **Improve system reliability while reducing ground impact velocity, oscillation and exposure time to threats.**
- **Novel new parachute designs using computational analytical methods to reduce manufacturing and testing requirements.**
- **Decrease high opening forces for parachute systems deployed at high altitudes.**

AERIAL DELIVERY ENGINEERING TEAM:

Provides technical and engineering services for the development, acquisition, sustainment and use of products and processes for the aerial delivery of personnel and equipment by parachute, aircraft and helicopter.

- **Cargo & Munitions Airdrop Certification:** Department of the Army's certifier for airdrop rigging procedure development and engineering processes.
- **Helicopter Sling Load Certification:** Department of Defense certifier for slingload rigging procedure development and engineering processes.
- **Provide management and technical support to the field, Integrated Logistics Support Center (ILSC) and Airdrop Lifecycle Coordination Team.**